

Reference: QOD-510

Product/Process Change Notification
PCN-031122-AGA
Change in thickness tolerances and electrical limits.

Affected Product Scope:	Grade: Commercial			ID Number (MMDDYY): 031122				
	Diel	Case Size	Capacitance (Cap Code)	Voltages		End Term (C)	Tol	C-specs
	X7R	0603	47nF (473)	25V, 16V, 10V & 6.3V		100% Sn	J,K,M	7800 7210 7411 7867 7025 7013 7040 7081 7082
		0805	100nF (104)	50V, 35V, 25V, 16V, 10V & 6.3V			J,K,M	
		0805	1.0μF (105)	25V			J,K,M	
		0805	2.2μF (225)	25V			J,K,M	
		0805	4.7 μF (475)	25V			J,K,M	
		1206	1.0μF (105)	100V			K,M	
		1210	2.2μF (225)	100V			K,M	
		1210	10μF (106)	50V			K,M	
X5R	0402	220nF (224)	6.3V, 4V		K,M		Suffix TU TM	
	0402	470nF (474)	6.3V, 4V		K,M			
	0805	2.2μF (225)	25V		K,M			
	1210	4.7μF (475)	25V, 16V, 10V & 6.3V		K,M			
	1210	10μF (106)	50V, 25V		K,M			
Y5V	1210	4.7μF (475)	16V, 10V, 6.3V		M,Z			

See Affected part list below.

Change: The following KEMET parts will change in dimensional tolerances and/or some electrical limits.

Part Type	Length (mm)		Width (mm)		Thickness (mm)		DF (Max %)		IR MIN (Mohm)		pcs / reel (7in / 13in)
	Current	Planned	Current	Planned	Current	Planned	Current	Planned	Current	Planned	
X7R 0603 47nF 25V	1.0±0.15	1.0±0.15	0.8±0.15	0.8±0.15	0.8±0.07	0.80±0.10	3.5%	3.5%	10,000	10,000	4,000 / 15,000
X7R 0603 47nF 16V	1.0±0.15	1.0±0.15	0.8±0.15	0.8±0.15	0.8±0.07	0.80±0.10	3.5%	3.5%	10,000	10,000	4,000 / 15,000
X7R 0603 47nF 10V	1.0±0.15	1.0±0.15	0.8±0.15	0.8±0.15	0.8±0.07	0.80±0.10	5.0%	5.0%	10,000	10,000	4,000 / 15,000
X7R 0603 47nF 6.3V	1.0±0.15	1.0±0.15	0.8±0.15	0.8±0.15	0.8±0.07	0.80±0.10	5.0%	5.0%	10,000	10,000	4,000 / 15,000
X7R 0805 100nF 50V	2.0±0.20	2.0±0.20	1.25±0.20	1.25±0.20	0.78±0.10	0.78±0.10	2.5%	2.5%	10,000	5,000	4,000 / 15,000
X7R 0805 100nF 35V	2.0±0.20	2.0±0.20	1.25±0.20	1.25±0.20	0.78±0.10	0.78±0.10	2.5%	2.5%	10,000	5,000	4,000 / 15,000
X7R 0805 100nF 25V	2.0±0.20	2.0±0.20	1.25±0.20	1.25±0.20	0.78±0.10	0.78±0.10	3.5%	3.5%	10,000	5,000	4,000 / 15,000
X7R 0805 100nF 16V	2.0±0.20	2.0±0.20	1.25±0.20	1.25±0.20	0.78±0.10	0.78±0.10	3.5%	3.5%	10,000	5,000	4,000 / 15,000
X7R 0805 100nF 10V	2.0±0.20	2.0±0.20	1.25±0.20	1.25±0.20	0.78±0.10	0.78±0.10	5.0%	5.0%	10,000	5,000	4,000 / 15,000
X7R 0805 100nF 6.3V	2.0±0.20	2.0±0.20	1.25±0.20	1.25±0.20	0.78±0.10	0.78±0.10	5.0%	5.0%	10,000	5,000	4,000 / 15,000
X7R 0805 1uF 25V	2.0±0.20	2.0±0.20	1.25±0.20	1.25±0.20	1.25±0.15	1.25±0.20	3.5%	5.0%	500	500	2,500 / 10,000
X7R 0805 2.2uF 25V	2.0±0.20	2.0±0.20	1.25±0.20	1.25±0.20	1.25±0.15	1.25±0.20	10.0%	10.0%	45	45	2,500 / 10,000
X7R 0805 4.7uF 25V	2.0±0.20	2.0±0.20	1.25±0.20	1.25±0.20	1.25±0.15	1.25±0.20	10.0%	10.0%	21	21	2,500 / 10,000
X7R 1206 1uF 100V	3.2±0.20	3.2±0.30	1.60±0.20	1.60±0.20	1.60±0.20	1.60±0.20	2.5%	5.0%	500	500	2,000 / 8,000
X7R 1210 2.2uF 100V	3.2±0.20	3.2±0.30	2.50±0.20	2.50±0.20	1.90±0.20	2.00±0.20	2.5%	10.0%	10	10	2,000 / 8,000
X7R 1210 10uF 50V	3.2±0.20	3.2±0.40	2.50±0.20	2.50±0.30	2.50±0.30	2.50±0.30	2.5%	5.0%	10	10	2,000 / 8,000

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Part Type	Length (mm)		Width (mm)		Thickness (mm)		DF (Max %)		IR MIN (Mohm)		pcs / reel (7in / 13in)
	Current	Planned	Current	Planned	Current	Planned	Current	Planned	Current	Planned	
X5R 0402 220nF 6.3V	1.0±0.05	1.0±0.05	0.5±0.05	0.5±0.05	0.5±0.05	0.5±0.05	5.0%	10.0%	2,273	2,273	10,000 / 50,000
X5R 0402 220nF 4V	1.0±0.05	1.0±0.05	0.5±0.05	0.5±0.05	0.5±0.05	0.5±0.05	5.0%	10.0%	2,273	2,273	10,000 / 50,000
X5R 0402 470nF 6.3V	1.0±0.05	1.0±0.05	0.5±0.05	0.5±0.05	0.5±0.05	0.5±0.05	5.0%	10.0%	1,063	1,063	10,000 / 50,000
X5R 0402 470nF 4V	1.0±0.05	1.0±0.05	0.5±0.05	0.5±0.05	0.5±0.05	0.5±0.05	5.0%	10.0%	1,063	1,063	10,000 / 50,000
X5R 0805 2.2uF 25V	2.0±0.20	2.0±0.20	1.25±0.20	1.25±0.20	1.25±0.15	1.25±0.20	10.0%	10.0%	45	45	2,500 / 10,000
X5R 1210 4.7uF 25V	3.2±0.20	3.2±0.40	2.5±0.20	2.5±0.30	1.9±0.20	1.9±0.20	10.0%	10.0%	21	21	2,000 / 8,000
X5R 1210 4.7uF 16V	3.2±0.20	3.2±0.40	2.5±0.20	2.5±0.30	1.9±0.20	1.9±0.20	10.0%	10.0%	21	21	2,000 / 8,000
X5R 1210 4.7uF 10V	3.2±0.20	3.2±0.40	2.5±0.20	2.5±0.30	1.9±0.20	1.9±0.20	10.0%	10.0%	21	21	2,000 / 8,000
X5R 1210 4.7uF 6.3V	3.2±0.20	3.2±0.40	2.5±0.20	2.5±0.30	1.9±0.20	1.9±0.20	10.0%	10.0%	21	21	2,000 / 8,000
X5R 1210 10uF 50V	3.2±0.20	3.2±0.40	2.5±0.20	2.5±0.30	2.5±0.30	2.5±0.30	10.0%	10.0%	10	10	2,000 / 8,000
X5R 1210 10uF 25V	3.2±0.20	3.2±0.40	2.5±0.20	2.5±0.30	1.9±0.20	1.9±0.20	10.0%	10.0%	10	10	2,000 / 8,000

Part Type	Length (mm)		Width (mm)		Thickness (mm)		DF (Max %)		IR MIN (Mohm)		pcs / reel (7in / 13in)
	Current	Planned	Current	Planned	Current	Planned	Current	Planned	Current	Planned	
Y5V 1210 4.7uF 16V	3.2±0.20	3.2±0.40	2.5±0.20	2.5±0.30	1.9±0.20	1.9±0.20	7.0%	10.0%	21	21	2,000 / 8,000
Y5V 1210 4.7uF 10V	3.2±0.20	3.2±0.40	2.5±0.20	2.5±0.30	1.9±0.20	1.9±0.20	10.0%	10.0%	10	10	2,000 / 8,000
Y5V 1210 4.7uF 6.3V	3.2±0.20	3.2±0.40	2.5±0.20	2.5±0.30	1.9±0.20	1.9±0.20	10.0%	10.0%	10	10	2,000 / 8,000

Effective Date	Shipments beginning June 30 th , 2022
Notes	This is a Commercial PCN for Notification only. Do not need written approval
To Obtain Samples or General Information Contact	<p>Ana Garza Technical Product Engineer Ceramic Product Business Unit KEMET Electronics Corporation Ana.Garza@yageo.com</p> <p>Rebecca Chadwick Product Manager – Commercial MLCCs Ceramic Product Business Unit KEMET Electronics Corporation Rebecca.Chadwick@yageo.com</p>

KEMET Proprietary Information
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Reference: QOD-510

Affected part types:		
C0603C473J3RAC	C0603C473K3RAC	C0603C473M3RAC
C0603C473J4RAC	C0603C473K4RAC	C0603C473M4RAC
C0603C473J8RAC	C0603C473K8RAC	C0603C473M8RAC
C0603C473J9RAC	C0603C473K9RAC	C0603C473M9RAC
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C0805C104J5RACTU	C0805C104K5RACTU	C0805C104M5RACTU
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C0402C474K7PAC	C0402C474M7PAC	

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C0402C474K9PACTU	C0402C474M9PACTU	
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C1210C475K4PACTU	C1210C475M4PACTU	
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C1210C475K9PAC7215	C1210C475M9PAC7215	
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C1210C106K5PAC	C1210C106M5PAC	
C1210C106K3PACTU	C1210C106M3PACTU	
C1210C106K5PACTU	C1210C106M5PACTU	
C1210C106K3PAC7800	C1210C106M3PAC7800	
C1210C106K5PAC7800	C1210C106M5PAC7800	
C1210C106K3PAC7210	C1210C106M3PAC7210	
C1210C106K5PAC7210	C1210C106M5PAC7210	

Reference: QOD-510

C1210C106K3PAC7025	C1210C106M3PAC7025	
C1210C106K5PAC7025	C1210C106M5PAC7025	
C1210C106K3PAC7215	C1210C106M3PAC7215	
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C1210C475M8VAC	C1210C475Z8VAC	
C1210C475M9VAC	C1210C475Z9VAC	
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